

## EAST Search History

| Ref # | Hits    | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|---|------------------|---------|------------------|
| L1    | 1925474 | test\$3 certifi\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:16 |
| L2    | 1512557 | magnetic   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:16 |
| L3    | 2101854 | head transducer  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:16 |
| L4    | 142423  | 2 near 3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:17 |
| L5    | 2169    | 4 with 1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:42 |
| L6    | 5649179 | remov\$4 replac\$4 exchang\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:42 |
| L7    | 86427   | L6 near4 L3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:43 |
| L8    | 54      | 5 same 7   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:45 |
| L9    | 1292316 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/05 17:43 |

## EAST Search History

|     |         |   |   |    |    |                  |
|-----|---------|---|---|----|----|------------------|
| L10 | 1292316 | L9  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:43 |
| L11 | 6709083 | predetermin\$3 establ\$4 defin\$4<br>determin\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:44 |
| L12 | 53094   | skew  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:44 |
| L13 | 7015    | L11 with L12  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:45 |
| L14 | 2       | 8 and 13  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:45 |
| L15 | 4       | 5 and 7 and 13  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:46 |
| L24 | 384621  | brake   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 18:14 |
| L25 | 237172  | anchor  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 18:18 |
| S1  | 1292316 | ((dis\$1 hard) near2 (drive<br>apparatus)) HDA HDD DASD RAID<br>platter (magnetic storage drive\$1<br>assembly) near2 (disk\$5 disc\$1<br>media medium device) (storage<br>near2 drive\$1)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:16 |

## EAST Search History

|     |          |   |   |    |    |                  |
|-----|----------|---|---|----|----|------------------|
| S2  | 4983000  | (spin near stand) test\$3<br>manufactur\$3 (burn near in) burnin  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 17:15 |
| S3  | 5649179  | remov\$4 replac\$4 exchang\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:17 |
| S4  | 2101854  | head transducer   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:18 |
| S5  | 96027    | skew ((magneto-resistive<br>magnetoresistive (magneto near<br>resistive) head transducer<br>read/write read-write (read near<br>write) track) near3 (offset skew<br>displacement misregistration)) MRO<br>TRM | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:45 |
| S6  | 10819908 | sens\$3 detect\$3 determin\$3<br>calculat\$3 deriv\$3 estimat\$4 judg\$3<br>measur\$3 monitor\$3 observ\$4<br>predetermin\$3 establ\$4 defin\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:44 |
| S7  | 86427    | S3 near4 S4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:21 |
| S8  | 4068955  | (vibrat\$6 deform\$6 bending shak\$3<br>flexing (butterfly adj mode\$1)<br>resona\$5 accelerat\$5 shock\$2<br>collision\$1 impact\$3 disturb\$4<br>disturbance)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:21 |
| S9  | 17950    | S5 near4 S6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:21 |
| S10 | 243117   | piezo (piezoelectric piezo-electric<br>(piezo near electric) pzt)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:24 |

## EAST Search History

|     |         |  |   |    |    |                  |
|-----|---------|--|---|----|----|------------------|
| S11 | 78869   | S10 with S8                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:24 |
| S12 | 20      | S1 and S2 and S7 and S8 and S9<br>and S11        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:38 |
| S13 | 6       | ("5666237" "6566870").pn.<br>"20020130457"       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:44 |
| S14 | 582     | spin near stand                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:44 |
| S15 | 6709083 | predetermin\$3 establ\$4 defin\$4<br>determin\$4 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:44 |
| S16 | 53094   | skew   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:45 |
| S17 | 7015    | S15 with S16                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:45 |
| S18 | 1       | S1 and S7 and S9 and S14 and S17                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/05 15:46 |